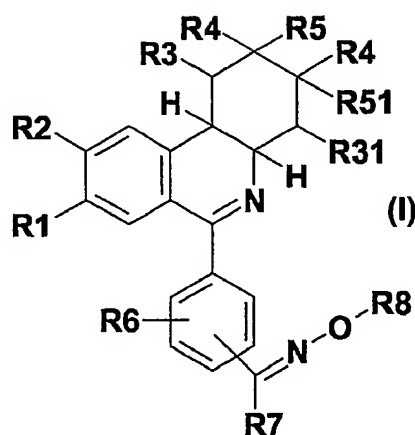


Patent Claims

1. Compounds of the formula I,



in which

- R1 is hydroxyl, 1-4C-alkoxy, 3-7C-cycloalkoxy, 3-7C-cycloalkylmethoxy or completely or predominantly fluorine-substituted 1-4C-alkoxy,
- R2 is hydroxyl, 1-4C-alkoxy, 3-7C-cycloalkoxy, 3-7C-cycloalkylmethoxy or completely or predominantly fluorine-substituted 1-4C-alkoxy,
- or in which R1 and R2 together are a 1-2C-alkylenedioxy group,
- R3 is hydrogen or 1-4C-alkyl,
- R31 is hydrogen or 1-4C-alkyl,
- or in which R3 and R31 together are a 1-4C-alkylene group,
- R4 is hydrogen or 1-4C-alkyl,
- R5 is hydrogen,
- R51 is hydrogen,
- or in which R5 and R51 together represent an additional bond,
- R6 is hydrogen, halogen, nitro, 1-4C-alkyl, trifluoromethyl or 1-4C-alkoxy,
- R7 is 1-4C-alkyl, 3-7C-cycloalkyl, 3-7C-cycloalkylmethyl, pyridinyl, phenyl or R71- and/or R72-substituted phenyl, wherein
- R71 is halogen, hydroxyl, cyano, trifluoromethyl, carboxyl, nitro, 1-4C-alkyl or 1-4C-alkoxy,
- R72 is 1-4C-alkoxy, 1-4C-alkyl or halogen,
- R8 is hydrogen, phenyl, 1-4C-alkyl, aryloxy-2-4C-alkyl or R9-substituted 1-4C-alkyl, wherein aryloxy is phenoxy or R81-substituted phenoxy, wherein
- R81 is halogen or trifluoromethyl,
- R9 is phenyl, C(O)N(R91)R92 or R93-substituted phenyl, wherein
- R91 is phenyl, aryl-1-4C-alkyl or R911-substituted phenyl, wherein

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aryl is phenyl or R81-substituted phenyl,

R911 is 1-4C-alkoxy or completely or predominantly fluorine-substituted 1-4C-alkoxy,

R92 is hydrogen,

or wherein R91 and R92, together and including the nitrogen atom to which both are bound, represent a 1-pyrrolidinyl, 1-piperidinyl, 1-piperazinyl, 4-methylpiperazin-1-yl, 4-phenylpiperazin-1-yl, 1-hexahydroazepinyl or 4-morpholinyl radical,

R93 is nitro, 1-4C-alkyl, 1-4C-alkoxycarbonyl, halogen, trifluoromethyl, 1-4C-alkoxy or completely or predominantly fluorine-substituted 1-4C-alkoxy,

and the salts and the E/Z isomers of these compounds.

2. Compounds of the formula I as claimed in claim 1, in which

R1 is 1-2C-alkoxy, 3-5C-cycloalkoxy, 3-5C-cycloalkylmethoxy or completely or predominantly fluorine-substituted 1-2C-alkoxy,

R2 is 1-2C-alkoxy, 3-5C-cycloalkoxy, 3-5C-cycloalkylmethoxy or completely or predominantly fluorine-substituted 1-2C-alkoxy,

R3 is hydrogen,

R31 is hydrogen,

R4 is hydrogen or 1-2C-alkyl,

R5 is hydrogen,

R51 is hydrogen,

or in which R5 and R51 together represent an additional bond,

R6 is hydrogen,

R7 is 1-4C-alkyl or phenyl,

R8 is hydrogen, phenyl, 1-4C-alkyl, aryloxy-2-4C-alkyl or R9-substituted 1-2C-alkyl, wherein aryloxy is phenoxy or R81-substituted phenoxy, wherein

R81 is halogen or trifluoromethyl,

R9 is phenyl, C(O)N(R91)R92 or R93-substituted phenyl, wherein

R91 is aryl-1-2C-alkyl or R911-substituted phenyl, wherein

aryl is phenyl or R81-substituted phenyl,

R911 is 1-4C-alkoxy or completely or predominantly fluorine-substituted 1-2C-alkoxy,

R92 is hydrogen,

or wherein R91 and R92, together and including the nitrogen atom to which both are bound, represent a 4-methylpiperazin-1-yl, 4-phenylpiperazin-1-yl or 4-morpholinyl radical,

R93 is nitro, 1-4C-alkoxycarbonyl, halogen, trifluoromethyl, 1-4C-alkoxy or completely or predominantly fluorine-substituted 1-2C-alkoxy,

and the salts and the E/Z isomers of these compounds.

3. Compounds of the formula I as claimed in claim 1, in which

R1 is methoxy,

R2 is methoxy,

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R3, R31, R4, R5 and R51 are hydrogen,

R6 is hydrogen,

R7 is 1-2C-alkyl or phenyl,

R8 is hydrogen, phenyl, methyl, ethyl, isobutyl, aryloxyethyl or R9-substituted methyl, wherein aryloxy is phenoxy or R81-substituted phenoxy, wherein

R81 is trifluoromethyl,

R9 is phenyl, C(O)N(R91)R92 or R93-substituted phenyl, wherein

R91 is arylmethyl or R911-substituted phenyl, wherein

aryl is chlorine-substituted phenyl,

R911 is methoxy,

R92 is hydrogen,

or wherein R91 and R92, together and including the nitrogen atom to which both are bound, represent a 4-phenylpiperazin-1-yl or 4-morpholinyl radical,

R93 is nitro, methoxycarbonyl, chloro, fluoro, trifluoromethyl or methoxy, and the salts and the E/Z isomers of these compounds.

4. Compounds of the formula I as claimed in claim 1, in which either

R1 is methoxy,

R2 is methoxy,

R3, R31, R4, R5 and R51 are hydrogen,

R6 is hydrogen,

R7 is methyl,

R8 is hydrogen, phenyl, methyl, ethyl, isobutyl, phenoxyethyl, 3-trifluoromethylphenoxyethyl or R9-substituted methyl, wherein

R9 is phenyl, 4-nitrophenyl, 4-methoxycarbonylphenyl, 4-chlorophenyl, 3-chlorophenyl, 2-chlorophenyl, 4-fluorophenyl, 3-fluorophenyl, 4-trifluoromethylphenyl, 3-trifluoromethylphenyl, 4-methoxyphenyl, 2-methoxyphenyl or C(O)N(R91)R92, wherein

R91 is 2-methoxyphenyl or 4-chlorobenzyl,

R92 is hydrogen,

or wherein R91 and R92, together and including the nitrogen atom to which both are bound, represent a 4-phenylpiperazin-1-yl or 4-morpholinyl radical;

or

R1 is methoxy,

R2 is methoxy,

R3, R31, R4, R5 and R51 are hydrogen,

R6 is hydrogen,

R7 is phenyl,

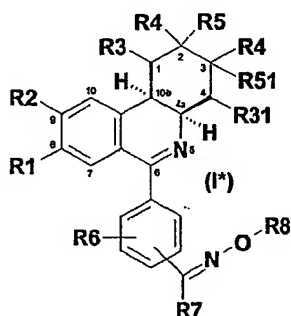
R8 is hydrogen;

and the salts and the E/Z isomers of these compounds.

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5. Compounds of the formula I according to either claim 1, 2, 3 or 4 in which the hydrogen atoms in positions 4a and 10b are in the cis position relative to one another, and the salts and the E/Z isomers of these compounds.

6. Compounds of the formula I according to either claim 1, 2, 3 or 4 which have with respect to the positions 4a and 10b the configuration shown in formula I*:



and the salts and the E/Z isomers of these compounds.

7. A compound of the formula I as claimed in claim 1 for use in the treatment or prevention of diseases.

8. A pharmaceutical composition comprising one or more compounds of the formula I as claimed in claim 1 together with customary pharmaceutical excipients and/or vehicles.

9. The use of compounds of the formula I as claimed in claim 1 and/or their pharmacologically acceptable salts for the production of pharmaceutical compositions for treating or preventing respiratory disorders and/or dermatoses.

10. A method for treating illnesses in a patient comprising administering to said patient a therapeutically effective amount of a compound of the formula I as claimed in claim 1.

11. A method for treating airway disorders in a patient comprising administering to said patient a therapeutically effective amount of a compound of the formula I as claimed in claim 1.